



TECHNICAL DATA SHEET ALCON RAPID PLASTIC STEEL 5 MINUTES

ORDERING INFORMATION

2212	ALCON RAPID PLASTIC STEEL 5 MINUTES	16 gr. BOX
2205	ALCON RAPID PLASTIC STEEL 5 MINUTES	16 gr. BLISTER
2204	ALCON RAPID PLASTIC STEEL 5 MINUTES SYRINGE	30 gr. BLISTER

Description A rapid-curing, general-purpose adhesive / encapsulant. It forms a hard, rigid bond or

coating in minutes

Features • 7 minute feature time

> • 100% reactive, no solvents • Good dielectric strength • Good solvent resistance

Intended Use

- Cures fast for quick metal to metal bonding and repairs
- Pots and encapsulates electronic components and assemblies
- Seals against dust, dirt and contamination
- Fast-curing, thin set
- Suitable for bonding metals, fabrics, ceramics, glass, wood and concrete (in combinations)

PRODUCT DATA

Physical Colour Clear

Properties Mixed Viscosity 8,000 - 10,000cps

Mixed Ratio by Volume (Uncured) 1:1

> Working time @ 24°C 4-5 minutes Functional cure @ 24°C 1 hour 33.5 cm² Coverage 0.005mm thickness Specific volume 833 cm³/Kg

% solids by volume 100

Performance characteristics (cured)

7 days cured at 24°C

Kerosene

Adhesive tensile shear ASTM D1002 9.7 N/mm² Operating temperature, dry $(-40) - (+120^{\circ}C)$

Cured density, ASTM D792 1.11 gm/cm³

Cured hardness, ASTM D2240 85D

490 volts/mil Dielectric strength, ASTM D149

Chemical Resistance 7 days room temperature cure (30 days immersion)

Very good Fair Hydrochloric Acid Very good Very good Toluene

Chlorinated solvent Very good Fair Ammonia 10% Sulphuric acid Very good Very good 10% Sodium Hydroxide

Methanol





Epoxies are very good in water, saturated salt solution, leaded gasoline, mineral spirits, ASTM#3 oil and propylene glycol. Epoxies are generally not recommended for long-term exposure to concentrated acids and organic solvents.

APPLICATION INFORMATION

Surface Preparation

5 Minute Epoxy works best on clean surfaces. Surfaces should be free of heavy deposits of grease, oil, dirt or other contaminants, or cleaned with industrial cleaning equipment such as vapour phase degreasers or hot aqueous baths. Abrading or roughing the surfaces of metals will increase the microscopic bond area significantly and optimise the bond strength.

Mixing& Application

Syringe: Cut both ends of EPOXY TRANSPARENT RAPID BOND syringe dosing equipment by a knife. Push the pistons downward so that the components are removed evenly through the syringe. Stir until a homogeneous mixture. Apply the homogeneous mixture on both surfaces as a thin layer without much waiting. Unite the parts carefully and hold with light pressure for some minutes. The bonding process takes 1-2 hours and the material becomes usable.

Tube: Mix two components at same rate.

Apply mixed epoxy directly to one surface in an even film or as a bead. Assemble with the mating part within the recommended working time. Obtain firm contact between the parts to minimize any gap and ensure good contact of the epoxy with the mating part. A small amount of epoxy should flow out the edges to show there is adequate gap filling. For very large gaps, apply epoxy to both surfaces and spread to cover the entire area, or make a bead pattern, which will allow flow throughout the joint. Let bonded assemblies stand for the recommended functional cure time before handling. They are capable of withstanding processing forces at this point, but should not be dropped, shock loaded or heavily loaded.

Cure Cure time for 5-minute epoxy is 45 - 60 minutes for a functional cure. Full bond strength is reached in 16 hours

Storage Should be stored in a cool, dry place when not used for a long period of time. A shelf life of 3 years from date of manufacture can be expected when stored at room temperature 22°C in their original Shelf Life

containers.

For complete safety and handling information please refer to the appropriate Materials Safety Data Precaution

Sheets prior to using this product.

ALCON will replace any material found to be defective. Because the storage, handling and application Warranty

of this material is beyond our control we can accept no liability for the results obtained.

All information on this data sheet is based on laboratory testing and is not intended for design Disclaimer purposes. ALCON makes no representations or warranties of any kind concerning this data.

For product information visit www.alcon.com.tr alternatively for technical assistance please call

+90216 661 00 90